Jos M Ponce-Ortega

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

286 4,782 36 53 h-index g-index citations papers 6.26 4.8 5,400 300 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
286	Multi-generation System Optimization Compromising Water-Energy-Environment Nexus. <i>Green Energy and Technology</i> , 2022 , 171-200	0.6	
285	Strategic Planning for Optimal Management of Different Types of Shale Gas Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1451-1470	8.3	1
284	Optimizing resilience at water-energy-food nexus. <i>Computers and Chemical Engineering</i> , 2022 , 160, 1077	740	O
283	Involving behavior of population in the strategic planning of integrated energy systems. <i>Computers and Chemical Engineering</i> , 2022 , 157, 107583	4	1
282	Multiobjective optimization of the supply chain for the production of biomass-based fuels and high-value added products in Mexico. <i>Computers and Chemical Engineering</i> , 2022 , 157, 107598	4	O
281	Marginalization index as social measure for Acetone-Butanol-Ethanol supply chain planning. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 154, 111816	16.2	1
2 80	Incorporating the occupational health in the optimization for the methanol process. <i>Journal of Loss Prevention in the Process Industries</i> , 2022 , 74, 104660	3.5	Ο
279	Management of renewable energy sources 2022 , 3-31		О
278	Incorporating machine learning for thermal engines modeling in industrial waste heat recovery. <i>Chemical Engineering Research and Design</i> , 2022 , 181, 239-252	5.5	Ο
277	An optimization approach to increase the human development index through a biogas supply chain in a developing region. <i>Renewable Energy</i> , 2022 , 190, 347-357	8.1	0
276	Optimal design of a solar-grade silicon refinery incorporating a fairness approach. <i>Chemical Engineering Research and Design</i> , 2022 , 182, 25-36	5.5	
275	A water-energy-food security nexus framework based on optimal resource allocation. <i>Environmental Science and Policy</i> , 2022 , 133, 1-16	6.2	1
274	Optimal waste management during the COVID-19 pandemic <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 176, 108942	3.7	1
273	Intensification 4.0 of hydraulic fracturing process involving incentive schemes and the use of matching law. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 108968	3.7	O
272	Optimal Profit Distribution in Interplant Waste Heat Integration through a Hybrid Approach. <i>Energy</i> , 2022 , 253, 124001	7.9	O
271	Social impact assessment in designing supply chains for biorefineries 2022 , 405-426		
270	Modeling and optimization of supply chains: Applications to conventional and intensified biorefineries 2022 , 361-388		O

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269	Implementing genetic algorithms for optimizing integrated oil production systems. <i>Brazilian Journal of Chemical Engineering</i> , 2021 , 38, 929	1.7		
268	Strategic Planning of an Integrated Fuel Production System with a Fair-Sustainable Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5116-5127	8.3	1	
267	Multi-objective Optimization Approach to Meet Water, Energy, and Food Needs in an Arid Region Involving Security Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4771-4790	8.3	4	
266	Optimal Design of Water Networks in Eco-Industrial Parks Incorporating a Fairness Approach. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 8844-8860	3.9	4	
265	Use of metakaolin or coal gangue as a partial substitution of cement in mechanical performance of PC mortars. <i>European Journal of Environmental and Civil Engineering</i> , 2021 , 25, 502-515	1.5	2	
264	Involving resilience in optimizing the water-energy-food nexus at macroscopic level. <i>Chemical Engineering Research and Design</i> , 2021 , 147, 259-273	5.5	10	
263	Incorporating a seawater desalination scheme in the optimal water use in agricultural activities. <i>Agricultural Water Management</i> , 2021 , 244, 106552	5.9	5	
262	Optimization of the supply chain for the production of biomass-based fuels and high-added value products in Mexico. <i>Computers and Chemical Engineering</i> , 2021 , 145, 107181	4	4	
261	Optimal and Fair Distribution of Water Under Water Scarcity Scenarios at a Macroscopic Level. <i>International Journal of Environmental Research</i> , 2021 , 15, 57-77	2.9	1	
2 60	Optimization Strategies for Integrating and Intensifying Housing Complexes 2021 , 285-300			
259	Sustainable assessment of Water-Energy-Food Nexus at regional level through a multi-stakeholder optimization approach. <i>Journal of Cleaner Production</i> , 2021 , 290, 125194	10.3	12	
258	Planning of intensified production of solar grade silicon to yield solar panels involving behavior of population. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 161, 108241	3.7	2	
257	Involving Resilience in Synthesizing Food Networks in Low-Income Communities. <i>Process Integration and Optimization for Sustainability</i> , 2021 , 5, 139-157	2	2	
256	Multi-objective optimization of the supply chain for the production of biofuels and high value-added products in Mexico: importance of the water footprint. <i>Computer Aided Chemical Engineering</i> , 2021 , 7-12	0.6		
255	A Coordinated Framework for the Optimization of Municipal Solid Waste Management. <i>Computer Aided Chemical Engineering</i> , 2021 , 50, 1409-1414	0.6		
254	Optimal Supply Chain for Renewable Furfural Production Involving Economic, Environmental and Social Criteria. <i>Computer Aided Chemical Engineering</i> , 2021 , 50, 1395-1401	0.6		
253	Multi-objective Optimization Approach Based on Deterministic and Metaheuristic Techniques to Resource Management in Health Crisis Scenarios Under Uncertainty. <i>Process Integration and Optimization for Sustainability</i> , 2021 , 5, 429-443	2	3	
252	Planning production of solar grade silicon to yield solar panels involving behaviour of population. <i>Computer Aided Chemical Engineering</i> , 2021 , 50, 1701-1706	0.6		

251	A Hybrid Metaheuristic Deterministic Optimization Strategy for Waste Heat Recovery in Industrial Plants. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3711-3722	3.9	4
250	Sustainable Energy Transition Considering the WaterEnergy Nexus: A Multiobjective Optimization Framework. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3768-3780	8.3	4
249	Sustainable energy transition: modeling and optimization. <i>Current Opinion in Chemical Engineering</i> , 2021 , 31, 100661	5.4	5
248	The integration of pelletized agricultural residues into electricity grid: Perspectives from the human, environmental and economic aspects. <i>Journal of Cleaner Production</i> , 2021 , 321, 128932	10.3	Ο
247	Stochastic optimization of the water-energy-food nexus in disadvantaged rural communities to achieve the sustainable development goals. <i>Sustainable Production and Consumption</i> , 2021 , 28, 1249-12	8 ²	5
246	Fair Allocation of Potential COVID-19 Vaccines Using an Optimization-Based Strategy. <i>Process Integration and Optimization for Sustainability</i> , 2021 , 5, 3-12	2	9
245	Inherent occupational health hazards in the production of solar grade silicon. <i>Chemical Engineering Research and Design</i> , 2020 , 142, 285-294	5.5	3
244	Simultaneous structural and operating optimization of process flowsheets combining process simulators and metaheuristic techniques: The case of solar-grade silicon process. <i>Computers and Chemical Engineering</i> , 2020 , 140, 106946	4	5
243	Optimization Approach to Identify Fair Solutions in the Synthesis of Carbon, Hydrogen, and Oxygen Symbiosis Networks. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5985-5995	3.9	7
242	Optimal crop allocation including market trends and water availability. <i>European Journal of Operational Research</i> , 2020 , 285, 728-739	5.6	4
241	Structural and Operating Optimization of the Methanol Process Using a Metaheuristic Technique. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3135-3150	8.3	11
240	Synthesis and Sustainability Evaluation of a Lignocellulosic Multifeedstock Biorefinery Considering Technical Performance Indicators. <i>ACS Omega</i> , 2020 , 5, 9259-9275	3.9	20
239	Carbon Policies for Reducing Emissions in Power Plants through an Optimization Framework 2020 , 119	-131	
238	Water impact of an optimal natural gas production and distribution system: An MILP model and the case-study of Mexico. <i>Chemical Engineering Research and Design</i> , 2020 , 153, 887-906	5.5	3
237	Involving economic incentives in optimizing the methanol supply chain considering conventional and unconventional resources. <i>Applied Thermal Engineering</i> , 2020 , 166, 114622	5.8	6
236	Supply chain optimization for the production of biofuels and bioproducts from lignocellulosic biomass in Mexico. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 1339-1344	0.6	2
235	Identifying Fair Solutions in the Optimal Design of Integrated Residential Complexes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 157, 108116	3.7	4
234	Optimization of municipal solid waste management using a coordinated framework. <i>Waste Management</i> , 2020 , 115, 15-24	8.6	4

233	Optimal Planning for Satisfying Future Electricity Demands Involving Simultaneously Economic, Emissions, and Water Concerns. <i>Process Integration and Optimization for Sustainability</i> , 2020 , 4, 379-389	2	7
232	Hybrid Multiobjective Optimization Using Deterministic and Metaheuristic Techniques for Flowback Water Reusing in Hydraulic Fracturing Processes. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15298-15308	3.9	6
231	Water, energy, and food security assessment in regions with semiarid climates. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 2145-2161	4.3	5
230	Optimization of the integrated power and desalination plant with algal cultivation system compromising the energy-water-environment nexus. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 42, 100879	4.7	7
229	Systematic Approach for Assessing the WaterEnergyEood Nexus for Sustainable Development in Regions with Resource Scarcities. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13734-13748	8.3	11
228	Systems-Level Analysis of Phosphorus Flows in the Dairy Supply Chain. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17074-17087	8.3	3
227	Economic and Environmental Assessment of Gas Supply Chains Incorporating Shale Gas. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19122-19134	3.9	3
226	Strategic planning to improve the Human Development Index in disenfranchised communities through satisfying food, water and energy needs. <i>Food and Bioproducts Processing</i> , 2019 , 117, 14-29	4.9	14
225	A Multi-Objective Optimization Approach for WaterEnergyEood Grids in Isolated Communities. <i>Process Integration and Optimization for Sustainability</i> , 2019 , 3, 471-485	2	О
224	Optimal integration of organic Rankine cycle and desalination systems with industrial processes: Energy-water-environment nexus. <i>Applied Thermal Engineering</i> , 2019 , 158, 113740	5.8	15
223	Integrated utility pricing and design of water-energy rural off-grid systems. <i>Energy</i> , 2019 , 177, 511-529	7.9	11
222	Mixed-Integer Dynamic Optimization for Planning Distributed Biorefineries 2019 , 219-257		
221	Optimal Planning and Site Selection for Distributed Multiproduct Biorefineries Involving Economic, Environmental, and Social Objectives 2019 , 29-77		
220	Optimization of the Supply Chain Associated to the Production of Bioethanol From Residues of Agave From the Tequila Process in Mexico 2019 , 115-146		
219	Stochastic Design of Biorefinery Supply Chains Considering Economic and Environmental Objectives 2019 , 177-217		
218	Optimization of Microalgae-to-Biodiesel Production Process Using a Metaheuristic Technique. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8490-8498	8.3	15
217	Environmental impact and occupational hazard evaluation on intensified processes to produce diphenyl carbonate. <i>Computers and Chemical Engineering</i> , 2019 , 122, 19-30	4	5
216	Strategic planning for the use of waste biomass pellets in Mexican power plants. <i>Renewable Energy</i> , 2019 , 130, 622-632	8.1	24

215	Integrating Mass and Energy through the Anchor-Tenant Approach for the Synthesis of Carbon-Hydrogen-Oxygen Symbiosis Networks. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16761-16776	3.9	12
214	MINLP Approach for Mosquito-Borne Disease Control through Optimal Fumigation Policies. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 12789-12798	8.3	
213	Involving the Water-Energy-Food Nexus in Integrating Low-Income and Isolated Communities. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 427-432	0.6	
212	Fairness-guided design of water distribution networks for agricultural lands. <i>Computers and Chemical Engineering</i> , 2019 , 130, 106547	4	13
211	Carbon Price Evaluation in Power Systems for Flaring Mitigation. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2019 , 7, 716-729	1.9	3
210	Process Simulators 2019 , 5-25		
209	Optimization of Industrial Process 1 2019 , 79-90		
208	Metaheuristic Optimization Programs 2019 , 27-51		
207	Interlinking Between Process Simulators and Optimization Programs 2019, 53-73		
206	Optimization of biofuel supply chain design via a water-energy-food nexus framework. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 1567-1572	0.6	
205	Sustainable Strategic Planning for a National Natural Gas Energy System Accounting for Unconventional Sources. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 1003-1008	0.6	
204	Optimization of Process Flowsheets through Metaheuristic Techniques 2019 ,		7
203	Energy Model for Long-Term Scenarios in Power Sector under Energy Transition Laws. <i>Processes</i> , 2019 , 7, 674	2.9	1
202	Effective Use of Carbon Pricing on Climate Change Mitigation Projects: Analysis of the Biogas Supply Chain to Substitute Liquefied-Petroleum Gas in Mexico. <i>Processes</i> , 2019 , 7, 668	2.9	9
201	Optimal sustainable water-Energy storage strategies for off-grid systems in low-income communities. <i>Computers and Chemical Engineering</i> , 2019 , 123, 87-109	4	9
200	Evaluation of carbon and water policies in the optimization of water distribution networks involving power-desalination plants. <i>Applied Energy</i> , 2019 , 236, 927-936	10.7	8
199	Sustainable strategic planning for a national natural gas energy system accounting for unconventional sources. <i>Energy Conversion and Management</i> , 2019 , 181, 382-397	10.6	8
198	Optimal Design of Sustainable Agricultural Water Networks. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 440-457	8.3	6

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197	Inherently Safer Design and Optimization of Intensified Separation Processes for Furfural Production. <i>Industrial & Design Engineering Chemistry Research</i> , 2019 , 58, 6105-6120	3.9	31
196	Involving Acceptability in the Optimal Synthesis of Water Networks in Eco-Industrial Parks. Industrial & amp; Engineering Chemistry Research, 2019, 58, 2268-2279	3.9	12
195	A Disjunctive Programming Approach for Optimizing Carbon, Hydrogen, and Oxygen Symbiosis Networks. <i>Process Integration and Optimization for Sustainability</i> , 2019 , 3, 199-212	2	11
194	A multi-objective optimization approach for sustainable water management for places with over-exploited water resources. <i>Computers and Chemical Engineering</i> , 2019 , 121, 158-173	4	13
193	Involving the Water E nergy E ood Nexus in Integrating Low-Income and Isolated Communities. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1399-1418	8.3	11
192	Synthesis of mass exchange networks: A novel mathematical programming approach. <i>Computers and Chemical Engineering</i> , 2018 , 115, 226-232	4	7
191	Optimal production of power from mid-temperature geothermal sources: Scale and safety issues. <i>Energy Conversion and Management</i> , 2018 , 165, 172-182	10.6	12
190	Analysis of Carbon Policies in the Optimal Integration of Power Plants Involving Chemical Looping Combustion with Algal Cultivation Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5248-5	28 4	5
189	Thermo-economic-environmental optimization of a liquid separation condensation-based organic Rankine cycle driven by waste heat. <i>Journal of Cleaner Production</i> , 2018 , 184, 198-210	10.3	32
188	Use of Nonlinear Membership Functions and the Water Stress Index for the Environmentally Conscious Management of Urban Water Systems: Application to the City of Morelia. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7752-7760	8.3	2
187	Involving Acceptability in the Optimal Design of Total Integrated Residential Complexes Involving the Water-Energy-Waste Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7390-7402	8.3	7
186	Valuation of Water and Emissions in Energy Systems. <i>Applied Energy</i> , 2018 , 210, 518-528	10.7	21
185	Optimization of biofuels production via a water@nergyfbood nexus framework. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 1443-1466	4.3	30
184	Balancing stakeholder priorities in the operation of combined heat and power systems. <i>Applied Thermal Engineering</i> , 2018 , 128, 480-488	5.8	16
183	Analysis of the financial risk under uncertainty in the municipal solid waste management involving multiple stakeholders. <i>Computers and Chemical Engineering</i> , 2018 , 117, 433-450	4	11
182	A Multi-Stakeholder Optimization of Food Supply Chains: an Undernourishment Reduction Strategy. <i>Process Integration and Optimization for Sustainability</i> , 2018 , 2, 239-257	2	4
181	Optimization of Water Grid at Macroscopic Level Analyzing WaterEnergyFlood Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12140-12152	8.3	21
180	Synthesis of Water Distribution Networks through a Multi-Stakeholder Approach. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1717-1722	0.6	

179	A Multistakeholder Approach for the Optimal Planning of Sustainable Energy Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9451-9460	8.3	9
178	Perspectives for Implementing Distributed Generation in Developing Countries through Modeling Techniques. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1022-1038	8.3	9
177	Water, food and power grid optimization at macroscopic level involving multi-stakeholder approach. <i>Energy Procedia</i> , 2018 , 153, 347-352	2.3	7
176	Optimal design of water networks for shale gas hydraulic fracturing including economic and environmental criteria. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 2311-2332	4.3	7
175	Scalable Solution Strategies for Chance-Constrained Nonlinear Programs. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7987-7998	3.9	3
174	Synthesis and dual-objective optimization of industrial combined heat and power plants compromising the water nexus. <i>Applied Energy</i> , 2018 , 224, 448-468	10.7	15
173	Optimal design of total integrated residential complexes involving water-energy-waste nexus. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 1061-1085	4.3	13
172	Optimal location of biorefineries considering sustainable integration with the environment. <i>Renewable Energy</i> , 2017 , 100, 65-77	8.1	30
171	Mixed Integer Nonlinear Programming Model for Sustainable Water Management in Macroscopic Systems: Integrating Optimal Resource Management to the Synthesis of Distributed Treatment Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2129-2145	8.3	10
170	Optimal Design of Water Desalination Systems Involving Waste Heat Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1834-1847	3.9	19
169	Optimal Design of Energy Systems Involving Pollution Trading through Forest Plantations. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2585-2604	8.3	15
168	Optimal planning for the supply chain of biofuels for aviation in Mexico. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 1387-1402	4.3	15
167	Analysis of Carbon Policies in the Optimal Design of Domestic Cogeneration Systems Involving Biogas Consumption. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4429-4442	8.3	13
166	Thermo-economic analysis and optimization of a zoetropic fluid organic Rankine cycle with liquid-vapor separation during condensation. <i>Energy Conversion and Management</i> , 2017 , 148, 517-532	10.6	21
165	Involving Environmental Assessment in the Optimal Design of Domestic Cogeneration Systems. <i>Process Integration and Optimization for Sustainability</i> , 2017 , 1, 15-32	2	5
164	Optimal Design of Cogeneration Systems To Use Uncertain Flare Streams. <i>Industrial & amp;</i> Engineering Chemistry Research, 2017 , 56, 7049-7061	3.9	1
163	Defining priorities in the design of power and water distribution networks. <i>Energy</i> , 2017 , 137, 1026-104	0 7.9	12
162	Optimal Planning of Feedstock for Butanol Production Considering Economic and Environmental Aspects. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4018-4030	8.3	30

161	Optimal water management in macroscopic systems under economic penalty scenarios. <i>AICHE Journal</i> , 2017 , 63, 3419-3441	3.6	1	
160	Intensification for the Silane Production Involving Economic and Safety Objectives. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 261-269	3.9	5	
159	Strategic Planning for the Supply Chain of Aviation Biofuel with Consideration of Hydrogen Production. <i>Industrial & Discours amp; Engineering Chemistry Research</i> , 2017 , 56, 13812-13830	3.9	12	
158	Strategic Planning for Managing Municipal Solid Wastes with Consideration of Multiple Stakeholders. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10744-10762	8.3	22	
157	Dynamic Optimization and Control Strategy for the Planning of a Waste Management System involving Multiple Cities. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 1291-1296	0.6		
156	Optimal Design of Cogeneration Systems Based on Flaring and Venting Streams and Accounting for the Involved Uncertainty. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 937-942	0.6		
155	Sustainable Optimization of Food Networks in Disenfranchised Communities. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8895-8907	8.3	6	
154	Environmental, Technical, and Economic Evaluation of a New Treatment for Wastewater from Slaughterhouses. <i>International Journal of Environmental Research</i> , 2017 , 11, 535-545	2.9	6	
153	Optimal design of energy and water supply systems for low-income communities involving multiple-objectives. <i>Energy Conversion and Management</i> , 2017 , 151, 43-52	10.6	18	
152	A multi-objective optimization approach for the selection of working fluids of geothermal facilities: Economic, environmental and social aspects. <i>Journal of Environmental Management</i> , 2017 , 203, 962-972	<u>7</u> .9	27	
151	Dynamic optimization for the planning of a waste management system involving multiple cities. Journal of Cleaner Production, 2017 , 165, 190-203	10.3	14	
150	Optimal Planning for Sustainable Production of Avocado in Mexico. <i>Process Integration and Optimization for Sustainability</i> , 2017 , 1, 109-120	2	4	
149	Optimal Planning of Infrastructure for the Supply Chain of Shale Gas 2017 , 3-19		2	
148	Optimal Design of Multiplant Cogeneration Systems with Uncertain Flaring and Venting. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 675-688	8.3	14	
147	Optimization of the production of syngas from shale gas with economic and safety considerations. <i>Applied Thermal Engineering</i> , 2017 , 110, 678-685	5.8	47	
146	Mathematical optimization of a supply chain for the production of fuel pellets from residual biomass. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 721-734	4.3	9	
145	An optimization approach for the sustainable water management at macroscopic level accounting for the surrounding watershed. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 823-844	4.3	2	
144	Optimal Design of Water Distribution Networks with Incorporation of Uncertainties and Energy Nexus. <i>Process Integration and Optimization for Sustainability</i> , 2017 , 1, 275-292	2	8	

143	Optimal Coupling of Demand Patterns for Improving the Performance of CHP Systems. <i>Computer Aided Chemical Engineering</i> , 2017 , 1909-1914	0.6	1
142	Optimal planning of energy production involving carbon capture systems through a multi-stakeholder scheme. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 1315-1320	0.6	
141	Economic and environmental optimization of the biobutanol purification process. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 395-411	4.3	22
140	Optimal design of integrated agricultural water networks. <i>Computers and Chemical Engineering</i> , 2016 , 84, 63-82	4	12
139	Multiobjective Optimization of Dual-Purpose Power Plants and Water Distribution Networks. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6852-6866	8.3	20
138	Environmental and economic analysis for the optimal reuse of water in a residential complex. <i>Journal of Cleaner Production</i> , 2016 , 130, 82-91	10.3	42
137	Involving economic, environmental and safety issues in the optimal purification of biobutanol. <i>Chemical Engineering Research and Design</i> , 2016 , 103, 365-376	5.5	15
136	Integrated design and control of multigeneration systems for building complexes. <i>Energy</i> , 2016 , 116, 1403-1416	7.9	24
135	Financial Risk Assessment and Optimal Planning of Biofuels Supply Chains under Uncertainty. <i>Bioenergy Research</i> , 2016 , 9, 1053-1069	3.1	23
134	Optimal Water Management under Uncertainty for Shale Gas Production. <i>Industrial &</i> Engineering Chemistry Research, 2016 , 55, 1322-1335	3.9	68
133	Optimal Synthesis of Refinery Property-Based Water Networks with Electrocoagulation Treatment Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 147-158	8.3	17
132	A quantitative risk analysis for the vegetable oil industry in Mexico. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 245-256	4.3	3
131	Optimal Design of Inherently Safer Domestic Combined Heat and Power Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 188-201	8.3	16
130	Optimal Design of Distributed Algae-Based Biorefineries Using CO2 Emissions from Multiple Industrial Plants. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2345-2358	3.9	21
129	Total Heat Integration in the Biobutanol Separation Process. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 3000-3012	3.9	10
128	Optimal design of residential cogeneration systems under uncertainty. <i>Computers and Chemical Engineering</i> , 2016 , 88, 86-102	4	25
127	Life cycle assessment for Ambrox production from different chemical routes. <i>Journal of Cleaner Production</i> , 2016 , 130, 202-212	10.3	5
126	Optimal reconfiguration of a sugar cane industry to yield an integrated biorefinery. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 553-562	4.3	22

125	A Mixed Integer Programming Model for Sustainable Water Management in Macroscopic Systems. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 1839-1844	0.6	
124	Optimal Reuse of Flowback Wastewater in Shale Gas Fracking Operations Considering Economic and Safety Aspects. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 943-948	0.6	5
123	Optimal Planning of Distributed Systems of Refineries and Biorefineries Considering Pollution Trading with Forest Plantations. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 1099-1104	0.6	2
122	Optimal reuse of flowback wastewater in hydraulic fracturing including seasonal and environmental constraints. <i>AICHE Journal</i> , 2016 , 62, 1634-1645	3.6	37
121	Stochastic design of biorefinery supply chains considering economic and environmental objectives. Journal of Cleaner Production, 2016 , 136, 224-245	10.3	53
120	Process Intensification in Heat and Mass Exchanger Networks 2016 , 65-81		
119	Optimal planning and infrastructure development for shale gas production. <i>Energy Conversion and Management</i> , 2016 , 119, 91-100	10.6	49
118	Optimization and CFD modeling of an improved rustic oven for producing bricks. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 1599-1609	4.3	
117	Optimal Design of Integrated Solar Power Plants Accounting for the Thermal Storage System and CO2 Mitigation through an Algae System. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11003-11011	3.9	2
116	Simultaneous synthesis of utility system and heat exchanger network incorporating steam condensate and boiler feedwater. <i>Energy</i> , 2016 , 113, 875-893	7.9	31
115	Industrial waste heat recovery and cogeneration involving organic Rankine cycles. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 767-779	4.3	40
114	Optimal design and integration of solar thermal collection, storage, and dispatch with process cogeneration systems. <i>Chemical Engineering Science</i> , 2015 , 136, 158-167	4.4	16
113	A mixed-integer dynamic optimization approach for the optimal planning of distributed biorefineries. <i>Computers and Chemical Engineering</i> , 2015 , 80, 37-62	4	14
112	An optimization approach for producing carbon nanotubes involving economic and safety objectives. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 2185-2195	4.3	2
111	Multiobjective optimization for designing and operating more sustainable water management systems for a city in Mexico. <i>AICHE Journal</i> , 2015 , 61, 2428-2446	3.6	10
110	Simultaneous design of water reusing and rainwater harvesting systems in a residential complex. <i>Computers and Chemical Engineering</i> , 2015 , 76, 104-116	4	21
109	Heat transfer analysis of a non-Newtonian fluid flowing through a circular tube with twisted tape inserts. <i>Applied Thermal Engineering</i> , 2015 , 84, 225-236	5.8	20
108	Optimal design of CHP systems for housing complexes involving weather and electric market variations. <i>Applied Thermal Engineering</i> , 2015 , 90, 895-906	5.8	17

1	107	Involving integrated seawater desalination-power plants in the optimal design of water distribution networks. <i>Resources, Conservation and Recycling</i> , 2015 , 104, 181-193	11.9	15	
1	106	Multi-objective optimization of the supply chain of biofuels from residues of the tequila industry in Mexico. <i>Journal of Cleaner Production</i> , 2015 , 108, 422-441	10.3	34	
1	105	Multiobjective Optimization Approach for Integrating Design and Control in Multicomponent Distillation Sequences. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12320-12330	3.9	33	
1	104	Optimization of facility location and reallocation in an industrial plant through a multi-annual framework accounting for economic and safety issues. <i>Journal of Loss Prevention in the Process Industries</i> , 2015 , 33, 129-139	3.5	17	
1	103	Optimal design of macroscopic water networks under parametric uncertainty. <i>Journal of Cleaner Production</i> , 2015 , 88, 172-184	10.3	29	
1	102	Optimal design of thermal membrane distillation systems with heat integration with process plants. <i>Applied Thermal Engineering</i> , 2015 , 75, 154-166	5.8	23	
1	101	Synthesis of optimal thermal membrane distillation networks. AICHE Journal, 2015, 61, 448-463	3.6	19	
1	100	Optimal design of domestic water-heating solar systems. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 637-656	4.3	9	
9	99	Optimal design of reusing water systems in a housing complex. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 343-357	4.3	10	
9	98	Optimal Planning of Sustainable Supply Chains for the Production of Ambrox based on Ageratina jocotepecana in Mexico 2015 , 161-181			
9	97	Simulation of Syngas Production from Lignin Using Guaiacol as a Model Compound. <i>Energies</i> , 2015 , 8, 6705-6714	3.1	11	
9	96	Synthesis of Eco-Industrial Parks Interacting with a Surrounding Watershed. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1564-1578	8.3	29	
9	95	Dynamic Optimization for the Optimal Location of New Industrial Facilities Considering the Sustainability of the Watershed. <i>Computer Aided Chemical Engineering</i> , 2015 , 36, 421-450	0.6		
9	94	Supply Chains and Optimization for Biorefineries. Computer Aided Chemical Engineering, 2015, 36, 475-4	957. 6	4	
9	93	Optimal planning for the reuse of municipal solid waste considering economic, environmental, and safety objectives. <i>AICHE Journal</i> , 2015 , 61, 1881-1899	3.6	26	
Ş)2	Reduction of greenhouse gas emissions from steam power plants through optimal integration with algae and cogeneration systems. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 2401-2415	4.3	10	
9)1	Optimal design of integrated CHP systems for housing complexes. <i>Energy Conversion and Management</i> , 2015 , 99, 252-263	10.6	47	
ç	90	Optimal design of agricultural water systems with multiperiod collection, storage, and distribution. Agricultural Water Management, 2015, 152, 161-172	5.9	12	

89	Multiobjective design of interplant trigeneration systems. AICHE Journal, 2014, 60, 213-236	3.6	29
88	Optimal reconfiguration of water networks based on properties. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 303-328	4.3	10
87	Optimum heat storage design for solar-driven absorption refrigerators integrated with heat exchanger networks. <i>AICHE Journal</i> , 2014 , 60, 909-930	3.6	8
86	Optimal design of rainwater collecting systems for domestic use into a residential development. <i>Resources, Conservation and Recycling</i> , 2014 , 84, 44-56	11.9	44
85	Waste Heat Recovery through Organic Rankine Cycles in the Bioethanol Separation Process. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 6773-6788	3.9	13
84	An MFA optimization approach for pollution trading considering the sustainability of the surrounded watersheds. <i>Computers and Chemical Engineering</i> , 2014 , 63, 140-151	4	18
83	Sustainable Integration of Algal Biodiesel Production with Steam Electric Power Plants for Greenhouse Gas Mitigation. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1388-1403	8.3	65
82	Optimal design of inter-plant waste energy integration. <i>Applied Thermal Engineering</i> , 2014 , 62, 633-652	5.8	43
81	An MINLP model for the simultaneous integration of energy, mass and properties in water networks. <i>Computers and Chemical Engineering</i> , 2014 , 71, 52-66	4	30
80	Optimal Synthesis of Property-Based Water Networks Considering Growing Demand Projections. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18260-18272	3.9	6
79	Optimal design of process energy systems integrating sustainable considerations. <i>Energy</i> , 2014 , 76, 139	9- 1 .60	23
78	Optimization of the Supply Chain Associated to the Production of Bioethanol from Residues of Agave from the Tequila Process in Mexico. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5524-5538	3.9	17
77	Biofuels from Residues of the Tequila Industry of Mexico. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1051-1056	0.6	1
76	An Optimal Planning for the Reuse of Municipal Solid Waste Considering Economic, Environmental and Safety Objectives. <i>Computer Aided Chemical Engineering</i> , 2014 , 1027-1032	0.6	3
75	A Multiobjective Optimization Approach for the Development of a Sustainable Supply Chain of a New Fixative in the Perfume Industry. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2380-2390	8.3	17
74	Sustainable Integration of Trigeneration Systems with Heat Exchanger Networks. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2732-2750	3.9	20
73	Siting Optimization of Facility and Unit Relocation with the Simultaneous Consideration of Economic and Safety Issues. <i>Industrial & Economic Chemistry Research</i> , 2014 , 53, 3950-3958	3.9	11
72	Optimal planning and site selection for distributed multiproduct biorefineries involving economic, environmental and social objectives. <i>Journal of Cleaner Production</i> , 2014 , 65, 270-294	10.3	203

71	A Mathematical Programming Approach for the Optimal Synthesis of Nanofibers through an Electrospinning Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 454-464	8.3	6
70	Optimal design of sustainable water systems for cities involving future projections. <i>Computers and Chemical Engineering</i> , 2014 , 69, 1-15	4	16
69	Sustainable Integration of Heat Exchanger Networks and Utility Systems. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1519-1524	0.6	
68	Sustainable Water Management in Cities. Computer Aided Chemical Engineering, 2014, 1057-1062	0.6	1
67	Global optimization in property-based interplant water integration. AICHE Journal, 2013, 59, 813-833	3.6	43
66	Synthesis of Multi-component Mass-exchange Networks. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 376-381	3.2	13
65	Optimal Design of a Distributed Treatment System for Increasing Dissolved Oxygen in Watersheds through Self-Rotating Discs. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 1267-1279	8.3	8
64	Multi-objective optimization of steam power plants for sustainable generation of electricity. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 551-566	4.3	30
63	Incorporating Property-Based Water Networks and Surrounding Watersheds in Site Selection of Industrial Facilities. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 91-107	3.9	24
62	Optimization of Pathways for Biorefineries Involving the Selection of Feedstocks, Products, and Processing Steps. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5177-5190	3.9	46
61	On the environmental, economic and safety optimization of distributed treatment systems for industrial effluents discharged to watersheds. <i>Journal of Loss Prevention in the Process Industries</i> , 2013 , 26, 908-923	3.5	12
60	A multi-objective approach for property-based synthesis of batch water networks. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 65, 83-96	3.7	12
59	Sustainable water management for macroscopic systems. <i>Journal of Cleaner Production</i> , 2013 , 47, 102-7	1175.3	38
58	Optimal planning for the sustainable utilization of municipal solid waste. <i>Waste Management</i> , 2013 , 33, 2607-22	8.6	126
57	Optimal integration of gaseous emissions from new industrial plants with the surroundings. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 93-110	4.3	5
56	Multi-objective optimization of process cogeneration systems with economic, environmental, and social tradeoffs. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 185-197	4.3	67
55	Multiobjective optimization of biorefineries with economic and safety objectives. <i>AICHE Journal</i> , 2013 , 59, 2427-2434	3.6	89
54	A systematic approach for synthesizing combined mass and heat exchange networks. <i>Computers and Chemical Engineering</i> , 2013 , 53, 1-13	4	24

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53	Synthesis of integrated absorption refrigeration systems involving economic and environmental objectives and quantifying social benefits. <i>Applied Thermal Engineering</i> , 2013 , 52, 402-419	5.8	32
52	Synthesis of cooling water systems with multiple cooling towers. <i>Applied Thermal Engineering</i> , 2013 , 50, 957-974	5.8	55
51	Systematic Synthesis of Mass Exchange Networks for Multicomponent Systems. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14219-14230	3.9	7
50	Incorporation of Mass and Energy Integration in the Optimal Bioethanol Separation Process. <i>Chemical Engineering and Technology</i> , 2013 , 36, 1865-1873	2	13
49	Incorporation of the Seasonal Variations in the Optimal Treatment of Industrial Effluents Discharged to Watersheds. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5145-5160	3.9	11
48	Synthesis of Water Networks Involving Temperature-Based Property Operators and Thermal Effects. <i>Industrial & Description of the Effects. Industrial & Description of the Effects and Thermal Chemistry Research</i> , 2013 , 52, 442-461	3.9	27
47	Optimal integration of organic Rankine cycles with industrial processes. <i>Energy Conversion and Management</i> , 2013 , 73, 285-302	10.6	59
46	Synthesis of Distributed Biorefining Networks for the Value-Added Processing of Water Hyacinth. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 284-305	8.3	36
45	An optimization approach for the synthesis of recycle and reuse water integration networks. <i>Clean Technologies and Environmental Policy</i> , 2012 , 14, 133-151	4.3	18
44	Optimal design of distributed treatment systems for the effluents discharged to the rivers. <i>Clean Technologies and Environmental Policy</i> , 2012 , 14, 925-942	4.3	22
43	A Disjunctive Programming Formulation for the Optimal Design of Biorefinery Configurations. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3381-3400	3.9	55
42	Optimal reconfiguration of multi-plant water networks into an eco-industrial park. <i>Computers and Chemical Engineering</i> , 2012 , 44, 58-83	4	51
41	Integration of Single-Plant Water Networks into an Eco-Industrial Park. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 31-35	0.6	
40	Optimal Multi-Objective Planning of Distributed Biorefinery Systems Involving Economic, Environmental and Social Aspects. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 470-474	0.6	6
39	Global optimization of wastewater integration networks for processes with multiple contaminants. <i>Environmental Progress and Sustainable Energy</i> , 2012 , 31, 449-458	2.5	7
38	A Systems Approach for Process Simplification through Process Integration. <i>Chemical Engineering and Technology</i> , 2012 , 35, 1262-1272	2	13
37	An integrated approach to the optimization of in-plant wastewater interception with mass and property constraints. <i>Clean Technologies and Environmental Policy</i> , 2012 , 14, 257-265	4.3	7
36	Process intensification: New understanding and systematic approach. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012 , 53, 63-75	3.7	108

35	An MINLP model for biofouling control in seawater-cooled facilities. <i>Computers and Chemical Engineering</i> , 2012 , 37, 163-171	4	3
34	Multi-objective optimization of absorption refrigeration systems involving renewable energy. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 282-286	0.6	
33	Optimal biorefinery planning considering simultaneously economic and environmental objectives. <i>Computer Aided Chemical Engineering</i> , 2011 , 29, 1653-1657	0.6	
32	Synthesis of water integration networks in ecoindustrial parks. <i>Computer Aided Chemical Engineering</i> , 2011 , 29, 1170-1174	0.6	3
31	Synthesis of water networks considering the sustainability of the surrounding watershed. <i>Computers and Chemical Engineering</i> , 2011 , 35, 2837-2852	4	25
30	Optimization of mechanical draft counter flow wet-cooling towers using a rigorous model. <i>Applied Thermal Engineering</i> , 2011 , 31, 3615-3628	5.8	33
29	Incorporation of process integration into life cycle analysis for the production of biofuels. <i>Clean Technologies and Environmental Policy</i> , 2011 , 13, 673-685	4.3	54
28	A property-based approach to the synthesis of material conservation networks with economic and environmental objectives. <i>AICHE Journal</i> , 2011 , 57, 2369-2387	3.6	33
27	A global optimal formulation for the water integration in eco-industrial parks considering multiple pollutants. <i>Computers and Chemical Engineering</i> , 2011 , 35, 1558-1574	4	46
26	Multiobjective synthesis of heat exchanger networks minimizing the total annual cost and the environmental impact. <i>Applied Thermal Engineering</i> , 2011 , 31, 1099-1113	5.8	51
25	Total cost target for heat exchanger networks considering simultaneously pumping power and area effects. <i>Applied Thermal Engineering</i> , 2011 , 31, 1964-1975	5.8	21
24	Optimal retrofit of water conservation networks. <i>Journal of Cleaner Production</i> , 2011 , 19, 1560-1581	10.3	36
23	Optimization model for re-circulating cooling water systems. <i>Computers and Chemical Engineering</i> , 2010 , 34, 177-195	4	76
22	Synthesis of Heat Exchanger Networks with Optimal Placement of Multiple Utilities. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2849-2856	3.9	50
21	Optimal design of effluent-cooling systems using a mathematical programming model. <i>Applied Thermal Engineering</i> , 2010 , 30, 2116-2126	5.8	18
20	Global optimization of mass and property integration networks with in-plant property interceptors. <i>Chemical Engineering Science</i> , 2010 , 65, 4363-4377	4.4	73
19	MINLP optimization of mechanical draft counter flow wet-cooling towers. <i>Chemical Engineering Research and Design</i> , 2010 , 88, 614-625	5.5	52
18	Global optimization for the synthesis of property-based recycle and reuse networks including environmental constraints. <i>Computers and Chemical Engineering</i> , 2010 , 34, 318-330	4	78

LIST OF PUBLICATIONS

17	A disjunctive programming model for the optimal design of cooling water systems. <i>Computer Aided Chemical Engineering</i> , 2009 , 26, 1257-1262	0.6	
16	A property-based optimization of direct recycle networks and wastewater treatment processes. <i>AICHE Journal</i> , 2009 , 55, 2329-2344	3.6	86
15	Use of genetic algorithms for the optimal design of shell-and-tube heat exchangers. <i>Applied Thermal Engineering</i> , 2009 , 29, 203-209	5.8	115
14	A Disjunctive Programming Model for Simultaneous Synthesis and Detailed Design of Cooling Networks. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 2991-3003	3.9	29
13	Optimal synthesis of heat exchanger networks involving isothermal process streams. <i>Computers and Chemical Engineering</i> , 2008 , 32, 1918-1942	4	94
12	Synthesis of multipass heat exchanger networks using genetic algorithms. <i>Computers and Chemical Engineering</i> , 2008 , 32, 2320-2332	4	28
11	MINLP synthesis of optimal cooling networks. Chemical Engineering Science, 2007, 62, 5728-5735	4.4	39
10	Feasible Design Space for Shell-and-Tube Heat Exchangers Using the Bell D elaware Method. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 143-155	3.9	12
9	Heat Exchanger Network Synthesis Including Detailed Heat Exchanger Design Using Genetic Algorithms. <i>Industrial & Design Using Chemistry Research</i> , 2007 , 46, 8767-8780	3.9	20
8	Improving convergence of the stochastic decomposition algorithm by using an efficient sampling technique. <i>Computers and Chemical Engineering</i> , 2004 , 28, 767-773	4	9
7	Two-Level Optimization Algorithm for Heat Exchanger Networks Including Pressure Drop Considerations. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 6766-6773	3.9	18
6	Using the HSS technique for improving the efficiency of the stochastic decomposition algorithm. <i>Computer Aided Chemical Engineering</i> , 2003 , 14, 851-856	0.6	
5	Involving resilience in assessment of the water@nergyfbood nexus for arid and semiarid regions. Clean Technologies and Environmental Policy,	4.3	1
4	Systematic Approach for Synthesizing Carbon Hydrogen Dxygen Networks Involving Detailed Process Simulations. <i>Industrial & amp; Engineering Chemistry Research</i> ,	3.9	3
3	Use of Statistic Functions to Consider Uncertainty in Multi-objective Optimization Methods Based on Metaheuristic Algorithms. <i>Process Integration and Optimization for Sustainability</i> ,1	2	0
2	Use of Mathematical Approaches for Addressing COVID-19 Pandemic & Critical Review. <i>Process Integration and Optimization for Sustainability</i> ,1	2	
1	Machine Learning for Modeling the Bearing Capacity of Prestressed Concrete Elements Damaged by Corrosion. <i>Advanced Materials Research</i> ,1166, 65-79	0.5	1